

ABSTRACT OF THE DISCLOSURE

A composite elastic material useful for prosthetic applications is constituted of at least one cured silicone elastomer layer containing silicone oil and hollow microspheres dispersed throughout the elastomer layer. An elasticized fabric layer may be intimately bonded to one side of the silicone elastomer layer and the composite elastic material may be incorporated in various prosthetic appliances, including suction liners and sealing sleeves. When used in a suction liner, the composite elastic material may be molded to provide a thicker anterior wall and a thinner posterior wall with a smooth transition between the anterior and posterior walls. The composite elastic material covered with an elasticized fabric may be used as a sealing sleeve between a prosthetic device and a residual limb. The composite elastic material may contain one or more skin treating agents blended into the silicone elastomer.

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